

460



OIPE

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/10/034,623

**DATE:** 01/29/2002  
**TIME:** 15:31:40

**Input Set :** N:\Crf3\RULE60\10034623.txt  
**Output Set:** N:\CRF3\01292002\J034623.raw

1 <110> APPLICANT: Swanson, Ronald V.  
 2       Feldman, Robert A.  
 3       Schleper, Christa  
 5 <120> TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM  
 7 <130> FILE REFERENCE: DCORP.002A  
 9 <140> CURRENT APPLICATION NUMBER: 10/034,623  
 10 <141> CURRENT FILING DATE: 2001-12-21  
 12 <150> PRIOR APPLICATION NUMBER: 09/408,020  
 13 <151> PRIOR FILING DATE: 1999-09-29  
 15 <150> PRIOR APPLICATION NUMBER: 60/102,294  
 16 <151> PRIOR FILING DATE: 1998-09-29  
 18 <160> NUMBER OF SEQ ID NOS: 123  
 20 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 32998  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Cenarchaeum symbiosum  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: CDS  
 29 <222> LOCATION: (7604)...(8908)  
 31 <221> NAME/KEY: CDS  
 32 <222> LOCATION: (8961)...(9767)  
 34 <221> NAME/KEY: CDS  
 35 <222> LOCATION: (10545)...(10922)  
 37 <221> NAME/KEY: CDS  
 38 <222> LOCATION: (13944)...(14612)  
 40 <221> NAME/KEY: CDS  
 41 <222> LOCATION: (18638)...(20149)  
 43 <221> NAME/KEY: CDS  
 44 <222> LOCATION: (20554)...(20955)  
 46 <221> NAME/KEY: CDS  
 47 <222> LOCATION: (20956)...(21834)  
 49 <221> NAME/KEY: CDS  
 50 <222> LOCATION: (25151)...(26377)  
 52 <221> NAME/KEY: CDS  
 53 <222> LOCATION: (27535)...(28002)  
 55 <221> NAME/KEY: CDS  
 56 <222> LOCATION: (28065)...(29483)  
 58 <400> SEQUENCE: 1  
 59 gatccttgcac ctctgcgcatttggactgacc ggccgtgcgg ggctaaataa 60  
 60 agctgaggcg ccgcctgcag gctctgctca gccgttgatt atacagtact cgcaactcgca 120  
 61 ggtcttgctt tcgtcatctt ttgccctgca cttggcgtgc tggcccgact ggcactggac 180  
 62 gcagatctcg tctatgttgtt ctatcgaggt gtacttttg gactggtaa agccgaagcc 240

**ENTERED**

## **RAW SEQUENCE LISTING**

PATENT APPLICATION: US/10/034,623

DATE: 01/29/2002

TIME: 15:31:40

Input Set : N:\Crf3\RULE60\10034623.txt  
Output Set: N:\CRF3\01292002\J034623.raw

63	ggccgtccttt	ggtccaacca	tgaagcggtc	agggccgtta	tgccttaatt	atcttgccg	300
64	tcgccccggg	gccgctctg	ccggcgggag	cccccttga	ggccgctccc	cggctcgltt	360
65	tcccacaggt	gcatgtgcc	cctgatcata	aacgagccga	ctatgattgc	tacaagcccg	420
66	cccaactatca	gtataaacag	cctagccacg	ccccccattc	tgcccattgcg	tgtaatatgc	480
67	tgcacctgta	aacaaacatt	gcgcggggca	tggccgtcc	ggacagacag	aactgcccatt	540
68	gagacaggtg	cctgcgggcc	ggttaagctac	attaatttat	caccccccac	ggcggggccc	600
69	catgagcagg	accaagagaa	taatcatctg	ggcatccata	ctggcggggg	ggataatcta	660
70	cttctcgtc	cagggcgaga	ttgccagaaa	tgtattgtcc	tgagaacaga	agccatgcag	720
71	caactgcccgg	atcgtttttc	agttacctac	tgggcttttt	ggagttcggt	gatcaaaggc	780
72	ggtacaggtt	ttctatacat	gccagtcttgc	gctggaaaaaa	taaattgaag	atcggcgat	840
73	cctatctacg	agcgcctgccc	tgctttcac	ttgactagcc	ggagtagttc	gtctgcaatt	900
74	tctgtatagc	taggcattta	tgttagttgag	atacatgtcc	gcgggatccg	tttcatagtc	960
75	tgaatcaaacc	accggatcat	tccttctctt	taattccta	aatgcctgtat	gcagttcaag	1020
76	caggacggtt	acatcatcgc	gtttgattat	cggttctgtt	gtttcagctt	tttgcattt	1080
77	ctcatccatg	attataggct	acggttatttgc	actaaaaagg	tttccatctt	catgagtcgt	1140
78	gtgtttccgg	tggaatttacc	taccggggga	acataaaaaaa	atgagtacata	aacagcgcac	1200
79	tgcattccacc	gtggaccat	gagacaacga	gccggcagcg	gtgcacagca	ccgagttacaa	1260
80	cccccaatc	gtcttatcca	acgacctgccc	ctatgaaaac	tccagacgga	tctctccgg	1320
81	gcatccagta	cccatgtatg	tgagaattct	gactatctta	ccgtgggttt	ggcagttgtct	1380
82	caacgacggt	attaccgagg	tgattcatga	taattttgtt	gactggagta	tactgaaaaca	1440
83	tggtatttgc	cgcattaaat	actgacagca	ccagatcttgc	aaatttctgtt	tcatcttcca	1500
84	gatcagttac	ttttaagcca	atccctttac	attcttcttgc	cgatatgcgc	cttccatgac	1560
85	tgtatattt	tttagagggaa	gacattatttgc	ctgatatttttgc	ttttgactttt	tttaccgctg	1620
86	cagactcggtt	ctcaaaacatg	tatctagccat	gccatttttgc	tacaagttcc	acacttagct	1680
87	tctggctgtt	aatgcatttttgc	tgaatttagccat	cgggaggata	ttgccttaac	agtggaaagcc	1740
88	atgcgccgag	cctccccggg	tgtttttctgtt	acaccgactg	tgcttcttgc	aactcgctaa	1800
89	ttagaaactg	tgcagacatttgc	atgtgcatttgc	cggtcctgttgc	tggaataata	aattgggggt	1860
90	cgggtggacc	tatcgatgag	tgttttaccca	ttaccaggca	attcgatgag	catgcaagca	1920
91	tcgcagctgc	cgacatcgcc	gcatatggga	taatgatccg	gacatttttgc	aattttgcac	1980
92	gtatgtatga	gacgatttgc	tccgtggactt	cgacggagcc	ccccggacttgc	tggagttatta	2040
93	aatctaattt	cttagtcttttgc	aaatcaccat	tcatcttcat	aaatccatata	aggtcaccat	2100
94	ttgttatgag	agcttcattat	gacgtatgcgc	cttcgtccgt	tatccagtttgc	gtcgatcata	2160
95	gtattgtatc	cctccccggaa	tactgttgcat	attttgcatttttgc	atagtcgtat	agtaactacac	2220
96	caggtgcctg	ctcaccgacttgc	gactccattat	gtcgaagtttgc	gtcgtttgttgc	attttctgcgt	2280
97	aactaggcat	ttatgtatgttgc	gaaatgactat	cccgccggaa	tcataccata	gtctgtgtcg	2340
98	tatgacttgc	ctttttcttgc	catcaatttgc	tcatatttcttgc	catgcagtttgc	gagcaggatgtt	2400
99	gccatgtcac	tacgtttgttgc	cgtctgtttgc	gttgtctcgat	gtttttggc	catattattttgc	2460
100	tccatgttag	taaaggactat	tgttccattttgc	aaaagggttgc	tgattttaat	ttccaaagtgtt	2520
101	ttgcctcgca	atttccttca	aggcacatgttgc	aaaacggggcc	acaggcagat	cacagcatccat	2580
102	gctggggacc	catgaaataat	gccccccggcg	gtgcacatgttgc	tccgtgggg	gctcaataat	2640
103	aaaatgagtc	atcatgtatgttgc	gtctctatgttgc	aaatggctgttgc	accgggttttgc	tggtcgat	2700
104	gtaaaggctg	gttcaccaat	cgccgaatgttgc	tgtggatata	accacccat	tatcaacgttgc	2760
105	gtcttcttgc	gcgaacatttgc	atccgtatgttgc	ggaatattttgc	gtctcggttgc	aggatttcgttgc	2820
106	cttagatgttgc	ttcagacttgc	agccttagatgttgc	gcttagtgc	ccggccttgc	ctgtcggat	2880
107	accggtagac	cagtggccat	gcctctctgttgc	tcctctcgat	ctaagagat	cttccccctca	2940
108	gatattcgcc	tttccatcgat	gcagaggccat	acctgtctca	cgacggat	aaccctgttgc	3000
109	atgttcccttgc	ttaataggcgat	agcagcttgc	cccttggcc	ctgctgc	aggat	3060
110	gaaaagccat	catcgaggtat	ccaaaccggcgttgc	gggtcgat	gagctctgc	ccggcagat	3120
111	cctgttatccat	ctqqqgtat	ttttctgttgc	cctccqqqccat	ccaatagtggttgc	acacacgtat	3180

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/034,623

DATE: 01/29/2002

TIME: 15:31:40

Input Set : N:\Crf3\RULE60\10034623.txt

Output Set: N:\CRF3\01292002\J034623.raw

112	gatcgctaag ccagacttccgttatgaat tccgtgcgtt tgaaatcca ttcatgtctag	3240
113	ttttggctt tgccctcttc agcggatttc tgacccgctt gaactaaact ttgggccccct	3300
114	ttgatatctt ttcaaagggg tgccgccccca gccgaactgc ccacctgcac atgtccccgg	3360
115	tcttcacccgg gtaagtggca ctgcaggaaa tgctctgggt tacatcgcg tcccctgacg	3420
116	tcccaaagaa cgccaggaaa tgactcccgat atacgctatg cactccctgc tataccacaa	3480
117	gcacaagctg cagtaaaact ccacggggtc ttctctccccc gatggaagat gatggactgt	3540
118	tcgtccacct tatgtggctt caccgggtt taggccccca cagtgggct ctcgttggttc	3600
119	cattcatgca cgtcggaaact taccgcacaa ggcatttgcc taccttaaga gagtcagagt	3660
120	tactccggc gttAACCGGT CCTAGCTG GTTGAACCCA AGTTTAGAT ACCGGCACCG	3720
121	gccaggattc agcactata cataccctt cggctagca gtcgcctgtg tttttattaa	3780
122	acagtcgaaa ccccttgc actgcaacact gtcgcgcaca ttccctcatga cagctgcagg	3840
123	catcccttat acctaagcta caggactaat ttggcgaatt ccctcgccat acggtataacc	3900
124	cgttagcacct tagttacta aaccagcgca cctgtgtcgg atctgggtac gaacttgcag	3960
125	tttgctagcc gcacggctt tcattggctc ctgaaatcgg gaaaactctg ctaacgc当地	4020
126	gccactccc cctcgggctt gttctcgta ttacgacact cccaggccct cgaacgggttc	4080
127	gacacgacga cggcatgtt ccccttatcc ggaagcgaac catgcgttc aaacgc当地	4140
128	tgcaaggatc cagaatatta actggtttcc cattcgact actctgtga ggagtc当地	4200
129	aggatcgact aactccaggc tgacgacgca ttggctggaa acccttgcgc ttacgggt	4260
130	gcggatttcc accgactat gtcgttactg ccaccaggat ctgcaataga aatcggtcca	4320
131	caggacgtca ccgcctctgt tcgtcccaat cactacgcca acctaccacg gtgcacccat	4380
132	cacgggtcac gtctggagta tcgggtactt gcttagccc cgtccgtttt tgccgc当地	4440
133	tcgctcgca ggtaagttgt tacacactt ttgaaggata gtcacttctg agcttaccc	4500
134	cctgctgtct tggcgtatgac acgcacttgc gtcgtacact tagcagaat ttgggaccc	4560
135	taactccagt ctgggttaaa cccctctcg tcgtgaacact tacgtcacac gaaccgc当地	4620
136	ccatgcttct gcgatgtgt tcgggttcc gttgaatgg atgggtgagga atctcttccc	4680
137	cgcgccaccc tatcagtgtc ctaccggaaa caccatctcc acatagcact cctcgccgaga	4740
138	cgcttcggtt ggaactagca agcgcactg tagattgggtt ttgcaccctt atcccaact	4800
139	cacacaaacg agttgcacgt cagaactgtc gcagacccctt agtgggtttt cgc当地	4860
140	catcttgc当地 aggaatagat cgactggctt ctgccttac cgc当地act taacgc当地	4920
141	tcacacgtt ctcctcacaat tgctcgaga attcggttcc cttcgctca cgc当地	4980
142	ggcttaacct cgccatgaca gcaagctccc tggccgtt ttgcagacgg aacgc当地	5040
143	actgacgaca tgagctccgg actttcagct ccattgtcgg aacctccgtt cc当地	5100
144	cgtcttccat gccatgcacg tctgtaaagca ataggttca tgcacttcc accccc当地	5160
145	cggggtaactt ttcaagttcc cctcacgtt ctagtacact atcggttcc agagatattt	5220
146	agcctttgat gtcactttca ccaatctcg ctggccactg ccaaggacaa ctactcggt	5280
147	gctggccctg cccatttcca cttcgtagt ggggtatca ccctctaaacg cgg当地	5340
148	cagaacactt caactatttc ctggggccat tgcgc当地ac caaaacacca catctcgcc	5400
149	gcgttaccgc ggcagattca gtttgggttcc ttcccttttc gatgcctct acttggaaa	5460
150	tctctattga ttctctttcc tcgtggact aagatgttcc aattcccaacg gttcgaccc	5520
151	cgcttgc当地 gagtatacag gattccattt cggaaatctc gggatcaacg ggtgc当地	5580
152	cctaccccgaa gcttatcgca gcttgc当地ac tccttcttcc tcctctaaacg ct当地	5640
153	tcctattgcc gtcttacac cggcatattt agccacatata tacacgacta tgc当地	5700
154	tcatcgact cccagggggaa gggggccgtt acatcctca tacaccactt gctgtgt	5760
155	ttgcaccatg caaagatcat gtgcatttcc ttcaaaccag ttcttaagga ggtgatcc	5820
156	ccgcagggttcc ccctacgttcc accttgc当地t gactttccc ttgtcgctt cctcaagttc	5880
157	gataacgcca attagacgtc acctcactaa aagcaactt caatgaaacg acgggc当地	5940
158	tgtgcaagga gcagggacgtt attcactgtc cggtaatgac ggc当地ttac tagggattcc	6000
159	agattcgatgaa gggcgagttt cagccctcag tcataactgt ggtagcgaaa ggggattacc	6060
160	tcctccttcc ggatatggaa cccattgtca ctaccattgc agcccgctg tgccccca	6120

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/034,623

DATE: 01/29/2002

TIME: 15:31:40

Input Set : N:\Crf3\RULE60\10034623.txt  
 Output Set: N:\CRF3\01292002\J034623.raw

161	gttcggggc atactgacct gccgtggccc tttccctcct ccgcattAAC tcgcggcgTC	6180
162	ccgctaattc gccccactgc tccggagAGC aatggTggca actAGAGGCA agatCTCGC	6240
163	tgcTTACCTG acttaacagg acatCTCACG gcacGAGCTG gCGACGGCCA tgcACCACCT	6300
164	ctcAGCTTGT ctggtagAGT cttcAGCTT ACCTTCACAC tgcTGTCTC CCGGGTAAGA	6360
165	tttctggcgt tgactCCAT tgaACCAGCAG gCTTCACCCC ttgtggTGTCT CCCCCGCCAA	6420
166	ttcCTTAAg tatCATACTT gCGTACGTAC ttcccAGGCG gCAAACCTAA CGCTTCCCT	6480
167	gCGGCACTGC ACTGGCTT ACGCCAATGC ATCACTGAGT ttgcATTGTT tacAGCTGGG	6540
168	actACCCGGG tatCATAATCC ggTTTGTCC CCCAGCTTC ATCCCTCACC GTCGGACGTG	6600
169	ttctAGTAGA CCgcCTTCGC cacAGGGGT catCGATAGA tcAGAGGATT ttACCCCTTC	6660
170	ctaccGAGTA CCgtCTACCT CTCCCACTCC CTAGCCGTGC AGTATTCCG GCAGCCTATG	6720
171	cgttGAGCGC atAGATTAA ccgAAAACtt ACACGGCAGG CTACGGATGC tttagGCCA	6780
172	ataatCCTCC tgaccACTTg aggtGCTGgt ttTACCGCGG CGGCTGACAC cagaACTTGC	6840
173	ccACCCCTTA ttGCGCGGTG gTTTAAGAC CGGTAAAAGA ttTCTTGTAC agAAAACACT	6900
174	cggattaACC ttGTCGTGCT ttGCGACATT gCAAAGTTT CTGCGCTGCT GCGCCCCATA	6960
175	gggcCTGGGT CGGTGCTCA gtACCCATCT CGGGCCTCT CCTCTCAGAG CCCGTATCTG	7020
176	ttatAGCCTT ggtGGGCCAT tacCTCACCA ACAAGCTGAT AGACCGCAGT CCCCACCTAC	7080
177	ggcGATAAAAT cATTGGGCAC acaaACATT CCAGGCGATAG TGGCCTATCG GATATTATC	7140
178	tcagTTTCCG gaggttatCC CGTCCATAG GTTAGATTGA CTACGTGTTA CTGAGCCGTC	7200
179	tgcCTTGTAT tgCTACAATG ACTCGCATGG CTTAGTATCA ATCCGATAGC AGTCAGGTCC	7260
180	ggcAGGATCA ACCGGATTCA TAATTGGATT ATTttttttt tgTTAAGTAC GCTTGTACTT	7320
181	ttGGAATTGA ACAGAATGCA CATAATCTC ACATCTCAGA TATGACCCCTT CGATCATACC	7380
182	ctcATTCTGT gtGCGTAACT ggAGGCGAAGC GAATCACAAT ATGGTACAAT ACCATGCATT	7440
183	catCGCAAGC GCCGCTCTG CGTCACGTAC GATCGGATCG GCCCGTCCAT GGGCATATAA	7500
184	accATCGCCG ATTTCGCCCG CGGGCAGCCC CGATCAGGGG CGGGATCTGC CTGTATGATG	7560
185	gCGATCAGCC CTGATTAAAT TATGGGGGA GCGGCCTGCT GCGGTGATC TGGAACCGCGA	7620
186	gtacAGGGCA aAGACCGGCg GCTCGGCCG GATCTTGCC AGGTGAAAA AGTACCAcGT	7680
187	cggcGGGGTC agCCACAACA TAAGGTTCTA CGAGCCGTAT CGTTTGTGA CAAGGTCCGC	7740
188	gagcGGCAAG cacCTCGTcG acGTGGACGG GAAACAAGTAT GTAGACTACT GGATGGGGCA	7800
189	ctggAGCCTG atACTGGGC ACgcGCGCGC GCCAGTCAGG TCGCAGTAG AGGGCAGCT	7860
190	tgcCGCGGC tggatCCACG ggACCGTCAA CGAGCAGACG ATGAATCTCT CGAGAGATAAT	7920
191	acgcGGCGCG GtaAGCGTGG CAGAAAAGAC AAGGTACGTC ACgtCGGGGA CGGAGGCCGT	7980
192	catgtatGCG gcaAGGCTGG CGCGCGCGCA TACGGGCAGA AAAATAATAG CAAAGGCGGA	8040
193	cggcGGCTGG cacGGGTACG CGTCGGGCTG GCTCAAGTCG GTCAACTGGC CGTATGATGT	8100
194	gcccGAGAGC gggGGGCTCG TCGACGAAGA GCACTCTATA TCCATTCCGT ACAACGATCT	8160
195	tgaAGGTTCC ctggatGTTc ttggcgcgc AggcGACGAC ttggcatGCG tgataATCGA	8220
196	gccGCTGCTG ggcGGCGCG GCTGATACC GGCAGGATGAG GACTATCTGC GCGGCATAACA	8280
197	ggagtTTGTG cATTCAAGGG GCGCGCTGCT TGTCTCGAC GAGATAGTA CAGGGTTCCG	8340
198	gtttagGTTT ggCTGCGCTG AtGCTGCGAC AGGGCTGGAC CCCGATATAG TGGCCTCGG	8400
199	caAGATAGTC gggGGCGGAT TCCCATAGG GGTGATATGC GGCAAGGACG AGGTGATGGA	8460
200	aatCTCCAAC ACTATATCGC ATGCAAAGTC CGACAGGGCG TACATCGCG GCGGCACATT	8520
201	ctctGCAAAC CCCGCCACGA TGACAGCGGG CGCGCGAGCG CTGCGGAGC TCAAAAAGAG	8580
202	aaAGGGCACA ATATACCGA GGATAAAACTC CATGGGGGAC GACGCAAGGG ACAAGCTCTC	8640
203	aaAGATATTt gggAACAGGG TATCCGTGAC CGGAAGGGGc TCGCTTTCA TgACTCACTT	8700
204	tgttCAAGAT ggcGCCGGCA gggTCTCAA TGTGCGAGAT GCGGCAGCCT GCGATGTTGA	8760
205	gctGCTGAC AGGTACCAcC TGGACATGAT CACCGGGGAC GGCATATTCT TTCTGCCGGG	8820
206	caAGCTGGGG GccATATCGG CGCGCACTC AAAGGCCGAC CTCAAGACCA TGTATTCCGC	8880
207	atcAGAGCGC TTTGAGAAG GCTATGAGG TATAGCGCCG GAGGAAACTT TGTATTATACG	8940
208	ggcGTGCTGC CCCGGGGCCc ATGATACTCT TCGGCAAGAG CGACCCGCC GAGCTGGTGC	9000
209	gccAGGGCGGA CCTCTGTGc AGCAAGAACc AGTTCAGGGC GGCAATAGGC CTGTACGGGA	9060

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/034,623

DATE: 01/29/2002

TIME: 15:31:40

Input Set : N:\Crf3\RULE60\10034623.txt

Output Set: N:\CRF3\01292002\J034623.raw

210	aaatcctcaa	ggacgaccgg	cagaacaggg	gcgtcctgca	caaaaagggg	ctggccca	9120
211	acagggcaaa	aaagtactct	gatgcgtatca	cgtgtttga	ccggctgttc	gagcttgaca	9180
212	acaaggacgc	gcccgctac	aacaacaagg	ccatagccca	ggccgagctc	ggagacacgg	9240
213	catccgcgt	ggaaaactac	ggcaggggca	tgcaggccg	cccgctgtac	gcgcggcgc	9300
214	gcttcaacag	ggccgtgt	ctcgacaggc	tggcgagca	tgaggaggcg	ctgcggacc	9360
215	tcgacaggc	agccgagctg	gaccgacgc	agccgaaccc	gaggttctac	aaggggatag	9420
216	tgctcggca	gatgggcagg	cacgaagagg	cgctggcctg	cttcaaggc	gtgtcaaga	9480
217	ggcatcccg	ccacgcccac	tcacagtcc	acgtgggat	agagcttacc	gagcttggca	9540
218	ggcacgcca	ggccctcggg	gagcttgc	cactgcccgc	ggagcaccgc	gagaacgcca	9600
219	atgtattgt	tgccagggcg	cgcgcctct	cgggccttgg	cagggaggac	aatccatag	9660
220	cgcacactca	aaaggcgccc	aaaaaagatt	ccaagacgtat	aaaaaagtgg	gcccgccgag	9720
221	aaaaggcctt	tgacggaata	cgggacgatc	ccggttcaaa	aagatagccg	gttagaggat	9780
222	cttttttctt	gccgcgtcaa	tccgcatcat	gcgaccttt	tttttggcc	ccacaagtcg	9840
223	cgattcatag	actggtatcat	agaccaccc	caccgcctt	gcggcaact	cctcccgccag	9900
224	gtcgcgcgt	ccgtcaggcg	ggggcccgcg	cagcttctct	tttagtttg	agagcgcctc	9960
225	ttctgtctcc	acctcgcccc	tccgcacatt	ctctgacgc	tcgagtatcc	tccgcgggt	10020
226	cggctccacc	gcgcggggcc	ccgtcttgc	ggggaaagtcc	gtctcgcgc	cgtgcgggtc	10080
227	aaggcacatc	atcccttctg	attccgoaaa	gacatgctct	tctagctc	ggtcgaccct	10140
228	gttcttgc	agcctgcgc	agagcgtt	gtgtatgc	gacttgacc	ttatggaaa	10200
229	gacgcgcgt	cctagcacca	cctcgatcac	gttctggcc	accttgc	gttgcaccgc	10260
230	ctttctgaaa	aaatccgcag	agtacctggc	ggagacccgg	atcagcgcct	cgtggaccag	10320
231	ctttacagaa	tgcacatgga	cgtcttctt	ccgcggggcc	ctcataaggg	ccctaaaggc	10380
232	accgtcttc	tttgcctcta	tcatggcccg	agocgactcc	tcagtc	atggcgcag	10440
233	gaccgcgtc	ctggctttc	cagtcatccc	ctggcgcacc	ccgcataagg	catactatac	10500
234	aacgcaaggc	aaggtaataa	tagcctgcgc	tctgttaacgg	ccgtatgagg	tcggaggggca	10560
235	ggcccgata	catcgaaaag	ttcctaaga	ggcgacaa	ggcgatagac	aatgcagtc	10620
236	agcaggcgt	caagaggcga	gacgagatac	tagatgc	agtcgagctc	ggcaagatca	10680
237	ccgtggcga	ggcgcaaaaa	agaagcgatg	tgctgctcaa	gcaggccgag	cgggagagca	10740
238	agcggctaa	gtcaagggc	gcacaaaagc	tgcacaaagg	catagggcg	gcaaaaaaaaa	10800
239	tggcagccgg	caagggcgac	gacgtacaga	ccctggcaaa	gctcggcgag	ctgagaaagg	10860
240	cggggatcat	aacggagaag	gagtttgc	ccaaagaaaaa	gaagcttctc	gcccggatct	10920
241	gacttgaagc	cgctagacta	tacccggac	ggctcgat	aggaggtc	aaagaggtgg	10980
242	tttataaggca	cgccgtccct	tgtcgac	ttgc	tcggcatatc	ttagagcaac	11040
243	atattccacg	tgacatttc	cgacggcgca	aagaccaccc	tgcatac	cgagggcg	11100
244	cagctgctca	tagtgaccc	gggcacccggc	agcatgtca	tatttggaaa	gaccggcg	11160
245	ggcgaggcgg	aatttgc	aaaagagaca	gacaggatac	cgctaaagca	ggcagcatc	11220
246	cagtacatac	ctggccggcg	gctcacgtc	acggcgcaac	agacggcacc	accctgtccc	11280
247	atatacggt	aaactaccc	tegccatcg	gaaaggagcc	gtatacatta	tgtatgaat	11340
248	ccgacttgc	cagccgggtc	accggcg	tgtaaattat	attatttgag	cctctcc	11400
249	atcgacaggc	ttacaagg	ttgc	atcccttgc	ggatcactc	cctctagtc	11460
250	tttgc	acttgttgc	gctctgg	ctctttc	tggat	accctc	11520
251	atgttcccg	tgtacggaa	ggcaaaactt	ggcgaatcc	tcgagcatac	atccatgc	11580
252	cctattcccg	ccctgcctat	cttctcc	cttgc	ccgac	ccgc	11640
253	tcctcctc	aatctccgt	ttcc	agata	catagct	cccg	11700
254	tcccttc	atatctc	gtccatgt	aataa	aaaggcc	cccg	11760
255	tccaccc	ttatcattt	ggggccgtt	ttgaac	ccagc	ggta	11820
256	tgctgctaa	agtagcc	gttttggac	gagaa	cggt	caaaaa	11880
257	cctacgttcc	tcgacgagga	ccattc	ttgag	tcgagg	catg	11940
258	tatggcgtc	aggcatatcc	ccccgggg	ggc	tggac	atgc	12000

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/034,623

DATE: 01/29/2002

TIME: 15:31:41

Input Set : N:\Crf3\RULE60\10034623.txt  
Output Set: N:\CRF3\01292002\J034623.raw

L:8485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120